CONFIGURATION CHANGE REQUEST (CCR) Part A

CCR SEQUENCE NUMBER

USCRN 2005-25

1. BASIS FOR CCR

___ CORRECTIVE

___ PROBLEM PREVENTION

__x_ IMPROVEMENT

2. SUBMITTING AUTHORITY (Name & Org Code)

David R. Easterling, NCDC

3. PHONE NUMBER
828-271-4675

4. SUBMISSION DATE
4/12/2005

5. COGNIZANT TECHNICAL INDIVIDUAL

6. PHONE NUMBER

7. TITLE OF CHANGE

Definition of CRNlite instrument configuration for 1000 HCN sites.

8. TYPE OF CHANGE

__x_ HARDWARE __x_ SOFTWARE

___ DOCUMENTATION ONLY

9. EFFECTIVITY

__X_ SYSTEM

___ SPECIFIC SITE

10. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY

For modernization of the 1000 Historical Climatology Network Cooperative Observer sites a reduced version of the CRN instrumentation suite is required due to budget constraints.

11. KNOWN OR PROPOSED SOLUTION

Triple redundancy on a reduced set of temperature and precipitation instruments, plus soil moisture are required. The basic configuration of the CRNlite station will consist of

1. Three platinum resistance thermometers in one double aspirated shield.
2. Geonor raingauge with three wire/transducers.
3. raingauge wind shield consisting of a double Alter configuration.
4. soil moisture probe, make/model TBD.
5. data logger, make/model TBD.
6. GOES transmitter and antennae, make/model TBD
7. A/C power module, TBD
8. Solar power module, TBD.

12. REQUIRED CHANGE DATE
TBD, but prior to start of network installation.

13. RATIONALE FOR REQUIRED CHANGE DATE
So parts can be available to begin installation

14. RISK FACTOR FOR CHANGE

__X_ LOW ___ MEDIUM ___ HIGH

15. DECISION AUTHORITY LEVEL

___ FAST TRACK (* e.g.; correct documentation)

___ USCRN CCB ONLY ___ PMC

16. USCRN CCB DISPOSITION

___ APPROVED

___ DISAPPROVED

___ RECOMMEND APPROVAL

16. AUTHORIZING SIGNATURE

18. DISPOSITON DATE

19. PMC DISPOSITION

___ APPROVED

___ DISAPPROVED

20. AUTHORIZING SIGNATURE

21. DISPOSITION DATE

CONFIGURATION CHANGE REQUEST (CCR) Part B	CCR SEQUENCE NUMBER USCRN 2005-25

APPROVED SOLUTION

Instrument suite on p. 1, section 11.
Specific models and Cost, including calibration/installation, must be at or below $26,000.

2. WORK AUTHORIZATION NUMBER	3. ASSIGNED ACTION ENGINEER TBD

FUNDING INFORMATION		FUNDING SOURCE Climate Goal funding for HCN Modernization.	COST DATA
4.	DEVELOPMENT COSTS	TBD	0
5.	OPERATIONAL TEST AND EVALUATION COSTS	same	0
6.	PRODUCTION COSTS	same	0
7.	COMMUNICATION SERVICE/CIRCUIT COSTS	same	0
8.	IMPLEMENTATION SUPPORT COSTS	same	0
9.	LIFE CYCLE SUPPORT COSTS	Same	0
10.	TOTAL ESTIMATED COSTS	$50.06M, FY06-FY14	0

SUPPORT INFORMATION AND SCHEDULES

11. DEVELOPMENT SCHEDULE & STATUS	12. PROCUREMENT SCHEDULE & STATUS
N/A	TBD
13. IMPLEMENT/RETROFIT SCHEDULE & STATUS	14. REQUIRED CLEARANCES/WAIVERS/LICENSES TBD
15. PHYSICAL ITEMS & DOCUMENTS AFFECTED	16. LOGISTICS IMPACTS Plan for deployment of 1000 sites FY06-FY14.
17. OPERATIONS IMPACTS Plan for transmission and receipt of CRNlite data.	18. STAFF RESOURCE IMPACTS Hardware deploy, software development.

IMPLEMENTATION

19. PLANNED IMPLEMENTATION DATE	20. CHANGE NOTICE NUMBER
TBD, but possibly starting in FY06	
21. CHANGE NOTICE ISSUE DATE	22. CHANGE COMPLETION DATE